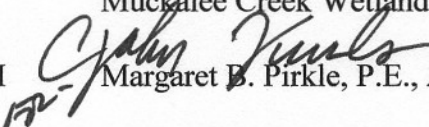


ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006942, Sumter County **OFFICE** Preconstruction
CSSTP-M006-00(942)
Muckalee Creek Wetland Mitigation Site **DATE** May 24, 2005
FROM  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction
TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

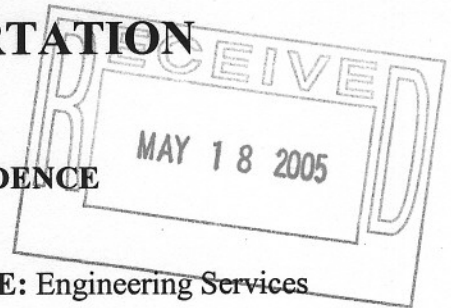
Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Paul Liles
Babs Abubakari
Thomas Howell
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE



FILE: CSSTP-M006-00(942) ^{SUMTER}~~Cherokee~~
P.I. No. 0006942
Mitigation Site Construction

OFFICE: Engineering Services

DATE: May 18, 2005

FROM: Brian Summers, Project Review Engineer *REW*

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted April 28, 2005 by the letter from Harvey Keeper dated April 22, 2005, and have no comments:

The costs for this project are:

Construction	\$2,314,000
Inflation	N/A
E & C	N/A
Reimbursable Utilities	N/A
Right of Way	N/A

REW

c: Harvey Keeper, Attn.: Steve Wiedl

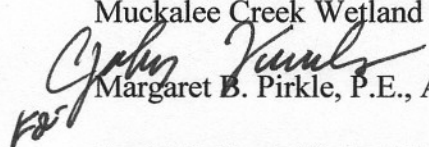
SCORING RESULTS AS PER MOG 2440-2

Project Number: CSSTP-M006-00(942)		County: Sumter		PI No.: 0006942																									
Report Date: April 22, 2005		Concept By: DOT Office: OEL																											
<input checked="" type="checkbox"/> Concept Stage		Consultant: Biohabitats, Inc.																											
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor		<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural																									
		<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input checked="" type="checkbox"/> Miscellaneous																											
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DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0006942, Sumter County **OFFICE** Preconstruction
 CSSTP-M006-00(942)
 Muckalee Creek Wetland Mitigation Site **DATE** May 12, 2005

FROM  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO David E. Studstill, Jr., P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the Muckalee Creek Wetland Mitigation Site, located in forested terrain along Muckalee Creek approximately 2.0 miles south of Americus and 1.0 mile east of U.S. 19. The site is a 400 acre tract already owned by the GDOT. The environmental restoration actions planned for this site include reestablishment of natural wetland hydrology by backfilling an extensive system of ditches excavated by the previous landowner; reestablishing wetland vegetation by harvesting planted pines and replanting with native bottom land hardwood tree species; and performing stream restoration by removing and extensive stream side berm which has been placed along the bank of Muckalee Creek. Wetland restoration proposed under this project will provide compensatory wetland and stream mitigation necessary to obtain Corp of Engineers 404 permits for various GDOT roadway and bridge projects.

Environmental concerns include requiring a Section 404 permit (Nationwide 27 for Mitigation Sites); mussel survey/possible Section 7 coordination for federally protected mussels; avoidance of archaeological site will be necessary.

The estimated costs for this project are:


	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$2,314,000	\$2,314,000	Lump	Lump
Right-of-Way & Utilities	-0-	-0-		

I recommend this project concept be approved.

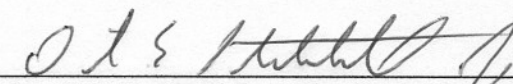
MBP:JDQ/cj

Attachment

CONCUR

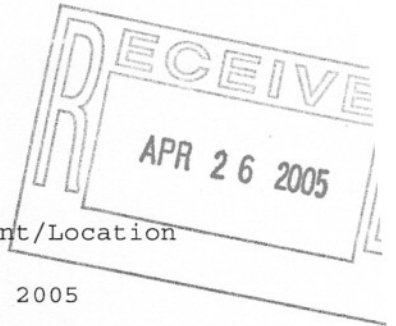

 Buddy Gratton, P.E., Director of Preconstruction

APPROVE


 David E. Studstill, Jr., P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE CSSTP-M0006-00(942), Sumter Co. OFFICE Environment/Location
P.I. No. 0006942

DATE April 22, 2005

HDK/SBK

FROM Harvey D. Keepler, State Environmental/Location Engineer

TO Meg Pirkle, Assistant Pre-Construction Division Director

SUBJECT Concept Report-Muckalee Creek Wetland and Stream Restoration
Project

Attached please find the original copy of the concept report for the
subject stream restoration project for your further handling for
approval in accordance with the Plan Development Process(PDP).

Thank you for your attention to this issue. Please contact Mr. Steve
Wiedl at (404)699-4420 if there are questions.

HDK/SCW

Attachment

cc: David Mulling
Gerald Ross
Jamie Simpson
Phillip Allen
Thomas Howell/District 3
Joe Palladi

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Environment & Location

PROJECT CONCEPT REPORT

Project Number: CSSTP-M0006-00(942)
Project Name: Muckalee Creek Mitigation Project

County: Sumter
P. I. Number: 0006942

Federal Route Number: N/A
State Route Number: N/A

Recommendation for approval:

DATE 4-22-05

DATE 04/22/05

Shirley P. Wulf

Project Manager

Harvey D. Keepler / SBR

Office Head, State Environmental/Location Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Traffic Safety & Design Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer

DATE _____

State Road and Airport Design Engineer

Need and Purpose: The purpose of this project is to provide compensatory wetland and stream mitigation necessary to obtain Corps of Engineers 404 permits for various GDOT roadway and Bridge projects.

Description of the proposed project: This environmental mitigation project would involve performing wetland and stream restoration at an approximately 400 acre tract, already purchased by GDOT, located in forested terrain along Muckalee Creek approximately 2 miles south of Americus and 1 mile east of U.S. 19. The environmental restoration actions planned for this site include reestablishment of natural wetland hydrology by backfilling an extensive system of ditches excavated by the previous landowner; reestablishing wetland vegetation by harvesting planted pines and replanting with native bottomland hardwood tree species; and performing stream restoration by removing an extensive streamside berm which has been placed along the bank of Muckalee Creek.

Is the project located in a Non-attainment area? _____ Yes ~~_____~~ **X** No. This project is not for transportation purposes so will have no effect on air quality.

PDP Classification: Major _____ Minor X
Federal Oversight: Full Oversight (), Exempt (X), State Funded (), or Other ()

Functional Classification: N/A

U. S. Route Number(s): N/A **State Route Number(s):** N/A

Traffic (AADT):
Current Year: (20XX) N/A Design Year: (20YY) N/A

Existing design features:

- Typical Section: N/A
- Posted speed N/A mph Maximum degree of curvature: N/A
- Maximum grade: N/A % (List mainline, cross roads, and driveways)
- Width of right of way: N/A ft.
- Major structures: N/A List all bridge structures including length, width, and sufficient rating).
- Major interchanges or intersections along the project: N/A
- Existing length of roadway segment and the beginning mile logs for each county segment. N/A

Proposed Design Features:

- Proposed typical section(s): N/A
- Proposed Design Speed Mainline N/A mph
- Proposed Maximum grade Mainline N/A %
- Proposed Maximum grade Side Street N/A %
- Proposed Maximum grade driveway N/A %
- Proposed Maximum degree of curve N/A .
- Right of way
 - Width N/A .
 - Easements: Temporary (), Permanent (), Utility (X), Other ().
 - Type of access control: Full (), Partial (), By Permit (), Other (N/A).
 - Number of parcels: 1 ,already purchased Number of displacements:
 - Business: N/A
 - Residences: N/A
 - Mobile homes: N/A
 - Other: N/A
- Structures:
 - No structures will be constructed.
- Major intersections and interchanges. Dirt access road ties in to U.S. 19
- Traffic control during construction: N/A
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(N/A)
ROADWAY WIDTH:	()	()	(N/A)
SHOULDER WIDTH:	()	()	(N/A)
VERTICAL GRADES:	()	()	(N/A)
CROSS SLOPES:	()	()	(N/A)
STOPPING SIGHT DISTANCE:	()	()	(N/A)
SUPERELEVATION RATES:	()	()	(N/A)
HORIZONTAL CLEARANCE:	()	()	(N/A)
SPEED DESIGN:	()	()	(N/A)
VERTICAL CLEARANCE:	()	()	(N/A)
BRIDGE WIDTH:	()	()	(N/A)
BRIDGE STRUCTURAL CAPACITY:	()	()	(N/A)

- Design Variances; N/A.
- Environmental concerns: Section 404 Permit (Nationwide 27 for mitigation sites) will be needed. Stream buffer variance obtained through Ga. EPD will be necessary for project. Mussel survey/possible Section 7 Coordination for Federally protected mussel(s) in Muckalee Creek. Avoidance of archaeological site will be necessary.

- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements: Dirt access road, which is GDOT ownership property, passes over an existing paved railroad crossing giving connection to the main mitigation construction portion of site. Crossing permit may need to be obtained/verified through GDOT State Railroad Utilities Liaison.

Project responsibilities:

- Design: Environmental Consultant (Biohabitats, Inc.) as administered by GDOT Office of Environment/Location
- Right of Way Acquisition: Site has already been purchased fee simple by GDOT Right-of-Way
- Letting to contract: Office of Environment/Location coordinating through GDOT Contracts Administration
- Supervision of construction: District 3 Construction, with construction oversight support via mitigation design consultant Biohabitats, Inc. and mitigation task order consultants (Arcadis) on-call with GDOT Office of Environment/Location
- Providing material pits: Either available on-site or supplied by contractor following review/approval through GDOT Office of Materials/Research.

Coordination

- Initial Concept Meeting date and brief summary. N/A
- Concept meeting date and brief summary. N/A
- P. A. R. meetings, dates and results. N/A.
- FEMA, USCG, and/or TVA. N/A.
- Public involvement. N/A.
- Local government comments. N/A.
- Other projects in the area. Upcoming U.S 19 widening
- Other coordination to date. N/A
- Railroads: Dirt access road, which is GDOT ownership property, passes over an existing paved railroad crossing giving connection to the main mitigation construction portion of site. Crossing permit may need to be obtained/verified through GDOT State Railroad Utilities Liaison.

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 4 Months.
- Time to complete preliminary construction plans: Completed Feb, 2004 .
- Time to complete right of way plans: N/A Months.
- Time to complete the Section 404 Permit: 3 Months.
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: N/A Months.

Other alternates considered: N/A. GDOT Office of Environment/Location is continually seeking stream and/or wetland mitigation sites. Such mitigation opportunities occur on a case-by-case basis when there is a favorable convergence of factors such as: land parcel with obvious impairment of wetland/stream functions providing GDOT with cost effective restoration opportunity; willingness of landowner to negotiate sale of land at acceptable appraisal price; approval from regulatory agencies that site conditions and GDOT restoration proposals yield proper environmental mitigation; etc. The Muckalee Creek Mitigation Site in question is a very worthwhile mitigation tract from this perspective.

Comments: This site has been field reviewed by resource agencies and has been favorably received. GDOT Office of Environment/Location is currently negotiating a wetland banking instrument for this site which will allow for the release of needed stream and wetland mitigation credits. Construction of this site is of course integral to fulfilling wetland mitigation obligations and generation of needed mitigation credits.

Attachments:

1. Cost Estimate
2. Sketch location map

Attachment 1. Cost Estimate for Muckalee Creek Mitigation Site

Item				UNIT	TOTAL
No.	ITEM DESCRIPTION	QUANTITY	UNIT	COST	COST
149	Construction Stakeout	1	LS	\$40,000.00	\$40,000.00
151	Mobilization	1	LS	\$120,000.00	\$120,000.00
163	Construction Exit	1	EA	\$1,500.00	\$1,500.00
201	Clearing & grubbing (incl. Tree removal)	69.0	AC	\$4,000.00	\$276,000.00
201	Partial Clearing	151.0	AC	\$2,000.00	\$302,000.00
210	Pump Around - Maintenance of Stream Flow	1	LS	\$30,000.00	\$30,000.00
210	Earthwork				
210	Installation of Ditch Plugs	2,928	CY	\$20.00	\$58,560.00
210	Drainage Ditch Backfilling and Grading	58,106	CY	\$7.00	\$406,739.00
210	On-Site Borrow	18,905	CY	\$10.00	\$189,050.00
	Planting - Zone 1: Riparian-Seasonally Flooded				
702	Planting Zone 1 - Trees	19,401	EA	\$4.00	\$77,604.00
702	Planting Zone 1 - Shrubs	4,850	EA	\$2.50	\$12,125.00
700	Planting Zone 1 - Native Seed Mix	740,708	SF	\$0.05	\$37,035.40
	Planting - Zone 2 : Deep Swamp				
702	Planting Zone 2 - Trees	969	EA	\$4.00	\$3,876.00
702	Planting Zone 2 - Shrubs	350	EA	\$2.50	\$875.00
	Planting - Zone 3 : Middle Hardwood Wetlands-Temporarily Inundation				
702	Planting Zone 3 - Trees	45,780	EA	\$4.00	\$183,120.00
702	Planting Zone 3 - Shrubs	11,446	EA	\$2.50	\$28,615.00
700	Planting Zone 3 - Native Seed Mix	1,232,748	SF	\$0.05	\$61,637.40
	Planting - Zone 4 : Higher Hardwood Wetlands-Seasonally Inundated				
702	Planting Zone 4 - Trees	26,446	EA	\$4.00	\$105,784.00
702	Planting Zone 4 - Shrubs	6,615	EA	\$2.50	\$16,537.50
700	Planting Zone 4 - Native Seed Mix	670,824	SF	\$0.08	\$53,665.92
700	Planting - Zone 5 : Seeding	261,360	SF	\$0.05	\$13,068.00
702	90% Plant Warranty	1	LS	\$85,700.00	\$85,700.00
	SUBTOTAL				\$2,103,493.82
	10% Contingency				\$210,349.38
	TOTAL				\$2,313,843.20

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Environment & Location

PROJECT CONCEPT REPORT

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Project Name: Muckalee Creek Mitigation Project

County: Sumter
P. I. Number: 0006942

Federal Route Number: N/A
State Route Number: N/A

Recommendation for approval:

DATE 4-22-05

DATE 04/22/05

Steph L. Will
Project Manager
Harvey D. Keeple / SBR
Office Head, State Environmental/Location Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE _____

DATE _____

DATE 5-6-05

DATE _____

DATE _____

DATE _____

State Transportation Planning Administrator

State Transportation Financial Management Administrator

Paul Soler
State Traffic Safety & Design Engineer

District Engineer

Project Review Engineer

State Road and Airport Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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State Transportation Planning Administrator

State Transportation Financial Management Administrator

State Traffic Safety & Design Engineer

[Signature]
District Engineer

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State Road and Airport Design Engineer

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

Office of Environment & Location



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State Transportation Financial Management Administrator

DATE _____

State Traffic Safety & Design Engineer

DATE _____

District Engineer

DATE 5-18-05

Bruce Summers REX
Project Review Engineer

DATE _____

State Road and Airport Design Engineer